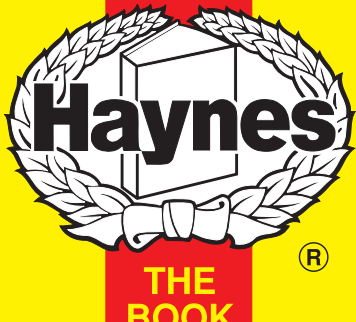


Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENUHELP

Engine and cooling system			405 Mi 16 & Mi 16x4	1988 to 1992
Type			XU9J4 (D6C) (116kW) DOHC 16V	
Capacity (cm³) / number of cylinders			1905 / 4	
Compression ratio / pressure		bar	10.4 / _	
Oil pressure		bar	2.0 [4.9]	
Oil temperature		°C	80	
Valve clearance - inlet		mm	0: Hyd.	
Valve clearance - exhaust		mm	0: Hyd.	
Firing order			1-3-4-2	
No 1 cylinder position			FE	
Thermostat opening temperature		°C	88	
Radiator cap pressure		bar	1.0	
Fuel system			405 Mi 16 & Mi 16x4	1988 to 1992
Idle speed - manual [auto]		rpm	880±50 N/A	
Fast idle speed - manual [auto]		rpm	_	
CO @ idle speed [3000 rpm] - see page VI		%	1.5 to 2.0	
HC @ idle speed [3000 rpm] - see page VI		ppm	≤1200	
CO2 @ idle speed [3000 rpm] - see page VI		%	≥10.0	
O2 @ idle speed [3000 rpm] - see page VI		%	_	
Carburettor / fuel injection			Bosch	
Type / ref			Motronic ML4.1. 91 ►: M1.3	
Main jet / needle			_	
Injection pressure		bar	3.0	
Pump pressure		bar	2.8 to 3.2	
Octane rating		RON	97[E 98 RON]	
Ignition system			405 Mi 16 & Mi 16x4	1988 to 1992
Type			DME Motronic	
Ignition coil			Bosch	
Primary resistance		ohms	0.7	
Ballast resistor		ohms	_	
Voltage - Tmnl 15(+) to earth		V	_	
Distributor			Bosch	
Points gap (air gap)		mm	_	
Dwell angle		° (%)	_	
Condenser capacity		µF	_	
Rotation			_	
Ignition timing - basic [static		° Crankshaft @ rpm	Computer control	
V = Vacuum NV = No Vacuum			_	
Total ignition advance		° Crankshaft @ rpm	_	
		° Crankshaft @ rpm	_	
		° Crankshaft @ rpm	_	
Centrifugal check.		° Crankshaft @ rpm	Computer control	
		° Crankshaft @ rpm	_	
		° Crankshaft @ rpm	_	
Vacuum range check		mbar	Computer control	
Maximum vacuum advance		° Crankshaft	_	
Spark plugs			Eyquem/Champion	
Type			FC62LS3 / C7YCX	
Electrode gap		mm	1.20	
Electrical system			405 Mi 16 & Mi 16x4	1988 to 1992
Battery		V / CC / RC	12 / 200 / 33	
Alternator voltage / full load current / engine rpm			13.8 to 14.8 / _ / 3000	
Starter motor current / voltage - cranking		A / V	_	
- locked		A / V	_	
Running gear			405 Mi 16 & Mi 16x4	1988 to 1992
Brakes -				
Front (min. friction material thickness)		mm	_	
Rear (min. friction material thickness)		mm	_	
Tyres				
Saloon		Size	195/60x14: 195/55x15	
Estate / Van		Size	_	
Pressure - front / rear - Saloon		bar	2.0 / 2.1¹	
- Estate / Van		bar	_	
Front suspension / wheel alignment				
Toe-in (+) / Toe-out (-)		mm [°]	+1.0±0.5 PW²	
Camber			0±30'	
Castor			+3°25'±30'. 4x4: +2°25'±30'	
King pin inclination			+11°30'±30'. 4x4: +11°25'±30'	
Rear suspension / wheel alignment				
Toe-in (+) / Toe-out (-)		mm [°]	+3.0±0.8³	
Camber			-1°20'±30'	
Torque wrench settings			405 Mi 16 & Mi 16x4	1988 to 1992
Cylinder head - stage 1		Nm	60	
- stage 2		Nm	Slacken	
Cylinder head - stage 3		Nm	20	
- stage 4		Nm	+ 300°	
Big-end bearings		Nm	40⁴	
Main bearings		Nm	53	
Clutch cover		Nm	22	
Flywheel [driveplate]		Nm	50 LkC	
Front hubs		Nm	265	
Rear hubs		Nm	275	
Wheel nuts / bolts		Nm	85	
Spark plugs		Nm	27	
Capacities			405 Mi 16 & Mi 16x4	1988 to 1992
Engine oil & filter		litres	5.3	
Gearbox - 4-speed [5-speed]		litres	2.0⁵	
Automatic transmission - refill		litres	_	
Final drive		litres	4x4: 1.6	
Cooling system		litres	7.2	
Fuel tank		litres	70	

Notes and Illustrations

¹195/55x15: 2.1 / 2.1

²4x4: +1.8±0.5

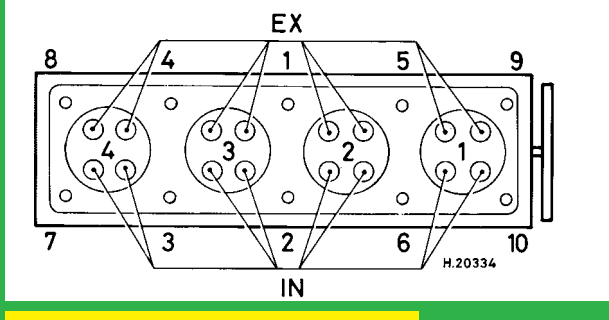
³4x4: +1.7±0.9

⁴Slacken, then 20 + 70°

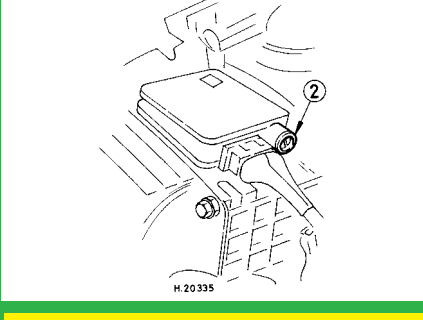
⁵Transfer box: 1.8

1: Idle speed

2: CO / Mixture



1905 cm³, 16V



ML4.1 / M1.3-Motronic